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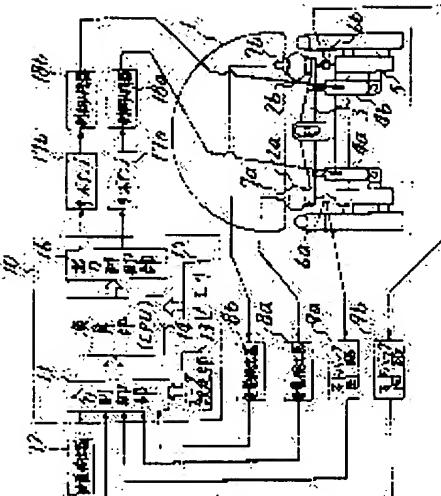
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(54) CAR BODY PARALLEL LIFTING DEVICE

(57) Abstract:

PURPOSE: To have smooth parallel rising of a car body in a device suitable for a magnetic float car by sensing the share load of each fluid pressure actuating mechanism installation position, and by controlling each fluid pressure actuating mechanism with the target value on the basis of the sensed value and the feedback value.

CONSTITUTION: A beam 3 on which a car body 1 is supported through pneumatic springs 2a, 2b is supported on the truck frame 5 with possibility of vertical movement and swinging round a pin in the center in car body width direction, and this beam 3 and truck frame 5 are coupled together through fluid pressure actuating mechanisms 4a, 4b. The operating conditions of these actuating mechanisms 4a, 4b are sensed by displacement sensor 6a, 6b, while the internal pressure of pneumatic springs 2a, 2b are sensed by pressure sensors 7a, 7b. From the sensing results of pressure sensors 7a, 7b, a calculator 10 senses the share load of the car body 1 shared by each fluid pressure actuating mechanism 4a, 4b, and fluid to be supplied to these actuating mechanisms 4a, 4b is controlled on the basis of these sensing results and the feedback value from the displacement sensor 6.



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